

Fig. 1A

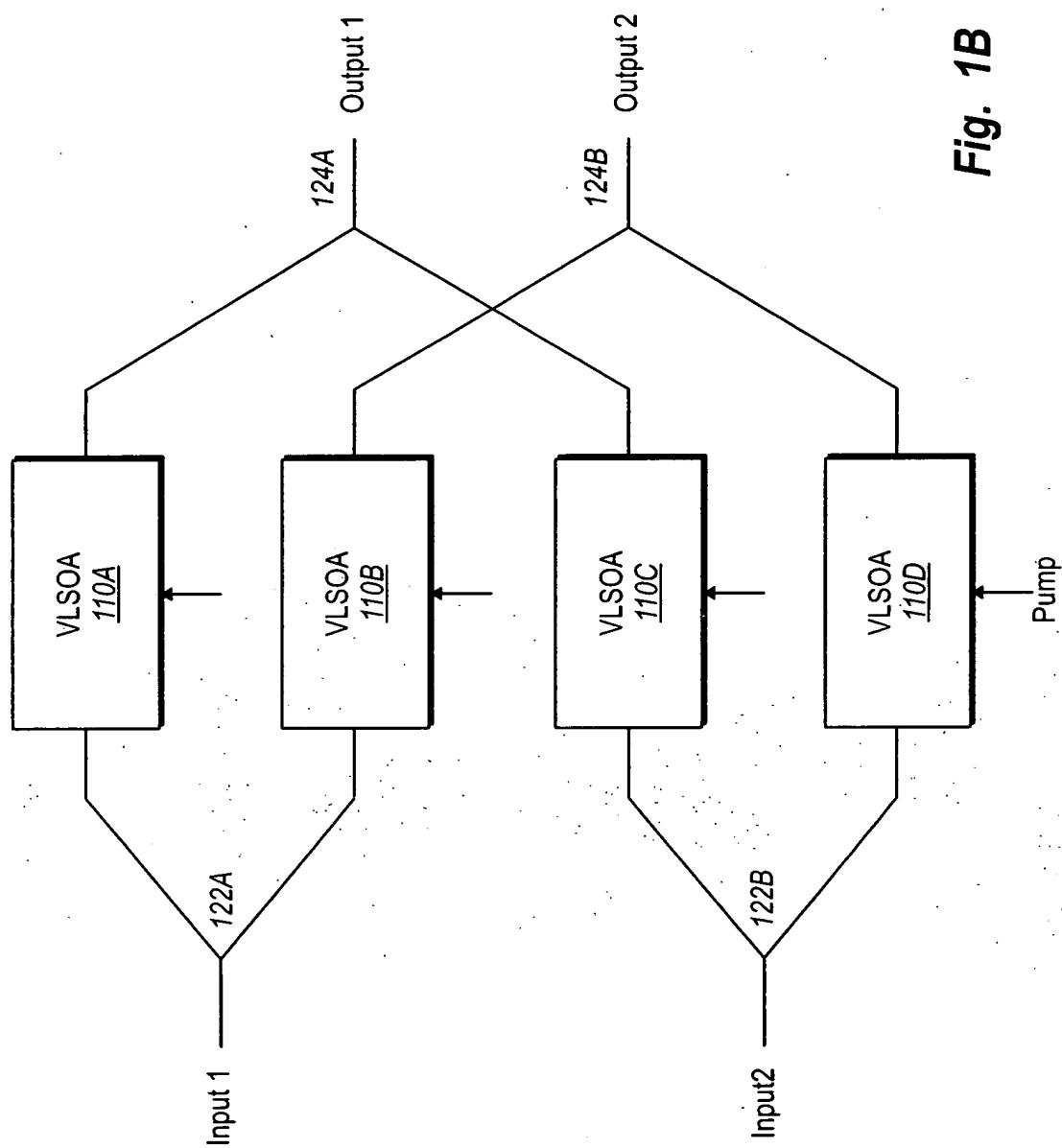


Fig. 1B

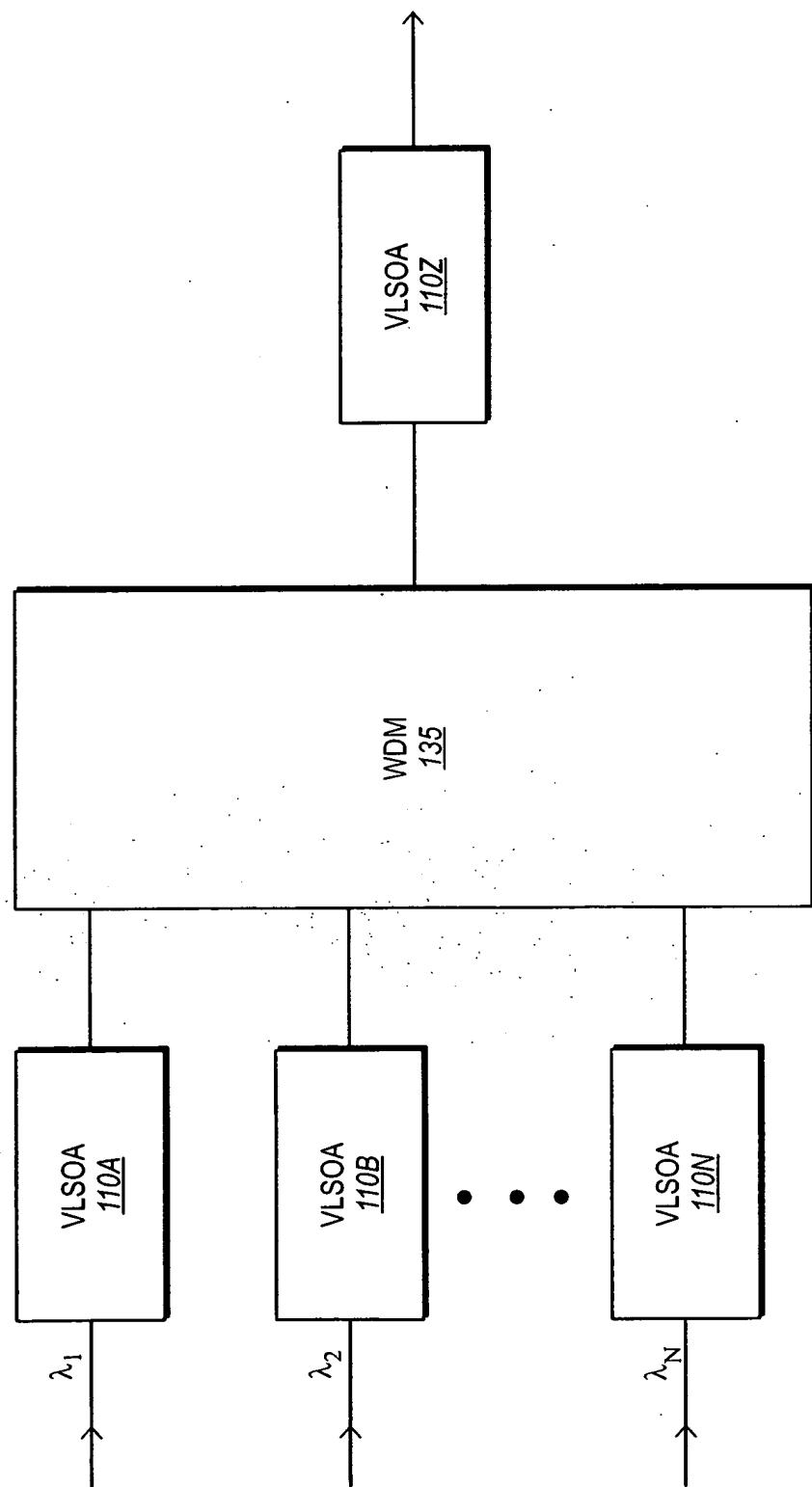


Fig. 1C

Title: Integrated Optical Device Including A Vertical Lasing Semiconductor Optical Amplifier

Inventors: Jeffrey D. Walker, et al.

Docket No.:15436.247.45.1

4 / 28

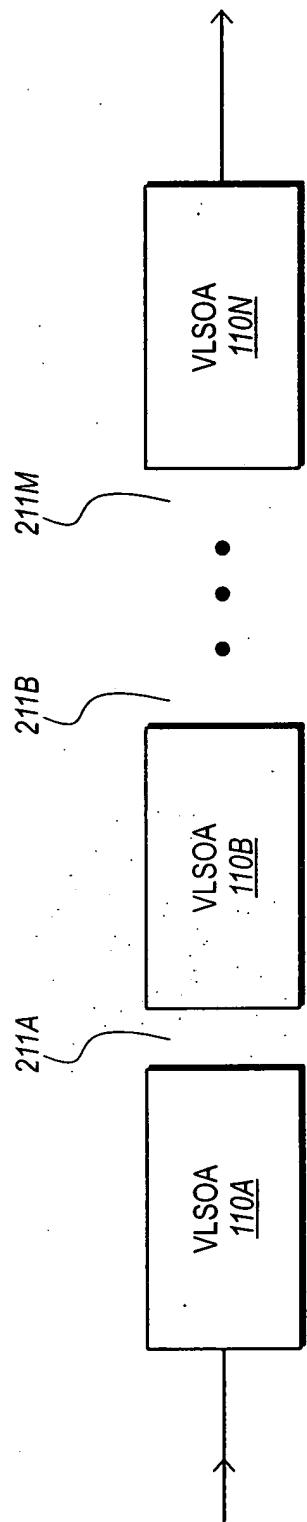


Fig. 2A

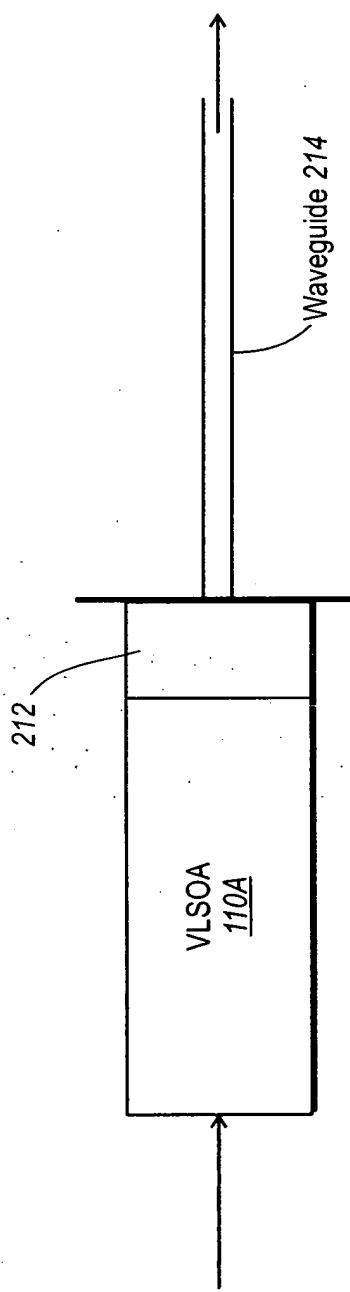


Fig. 2B

Title: Integrated Optical Device Including A Vertical Lasing Semiconductor Optical Amplifier

Inventors: Jeffrey D. Walker, et al.

Docket No.:15436.247.45.1

6 / 28

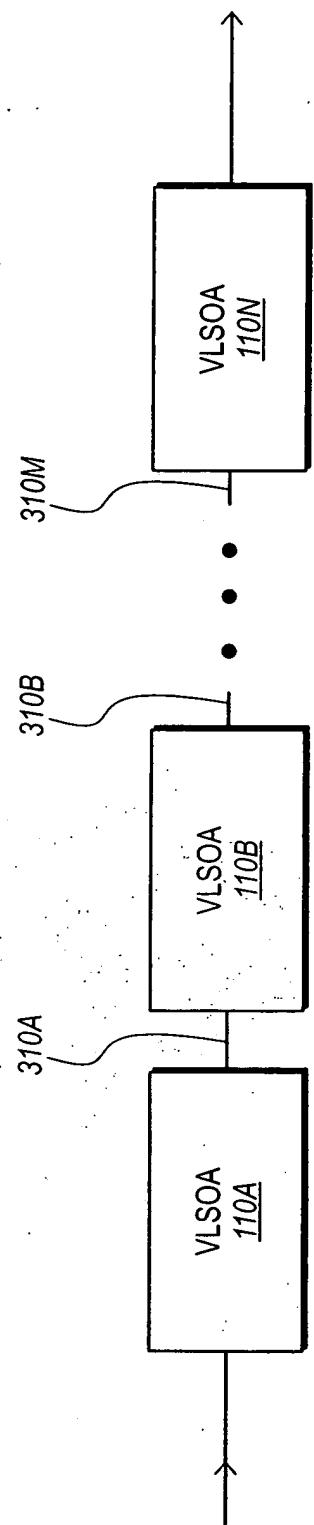


Fig. 3A

Title: Integrated Optical Device Including A Vertical Lasing Semiconductor Optical Amplifier
Inventors: Jeffrey D. Walker, et al.
Docket No.:15436.247.45.1

7 / 28

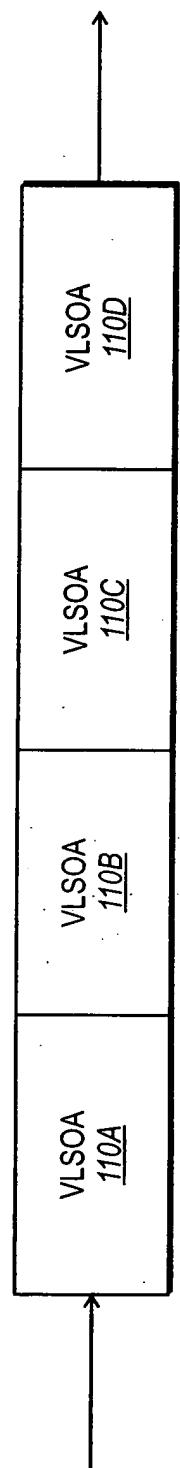


Fig. 3B

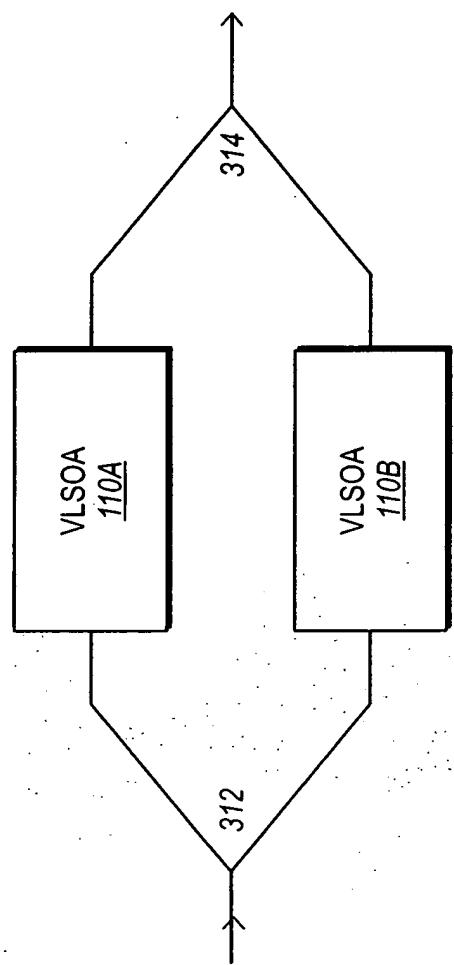


Fig. 3C

9 / 28

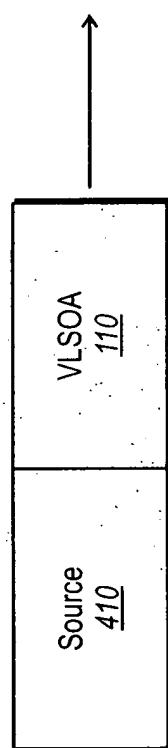


Fig. 4A

Title: Integrated Optical Device Including A Vertical Lasing Semiconductor Optical Amplifier

Inventors: Jeffrey D. Walker, et al.

Docket No.:15436.247.45.1

10 / 28

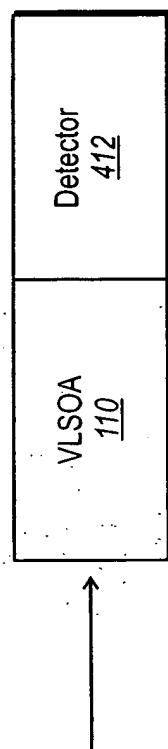


Fig. 4B

Title: Integrated Optical Device Including A Vertical Lasing Semiconductor Optical Amplifier

Inventors: Jeffrey D. Walker, et al.

Docket No.:15436.247.45.1

11 / 28

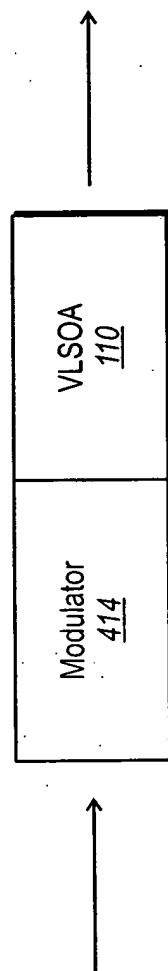


Fig. 4C

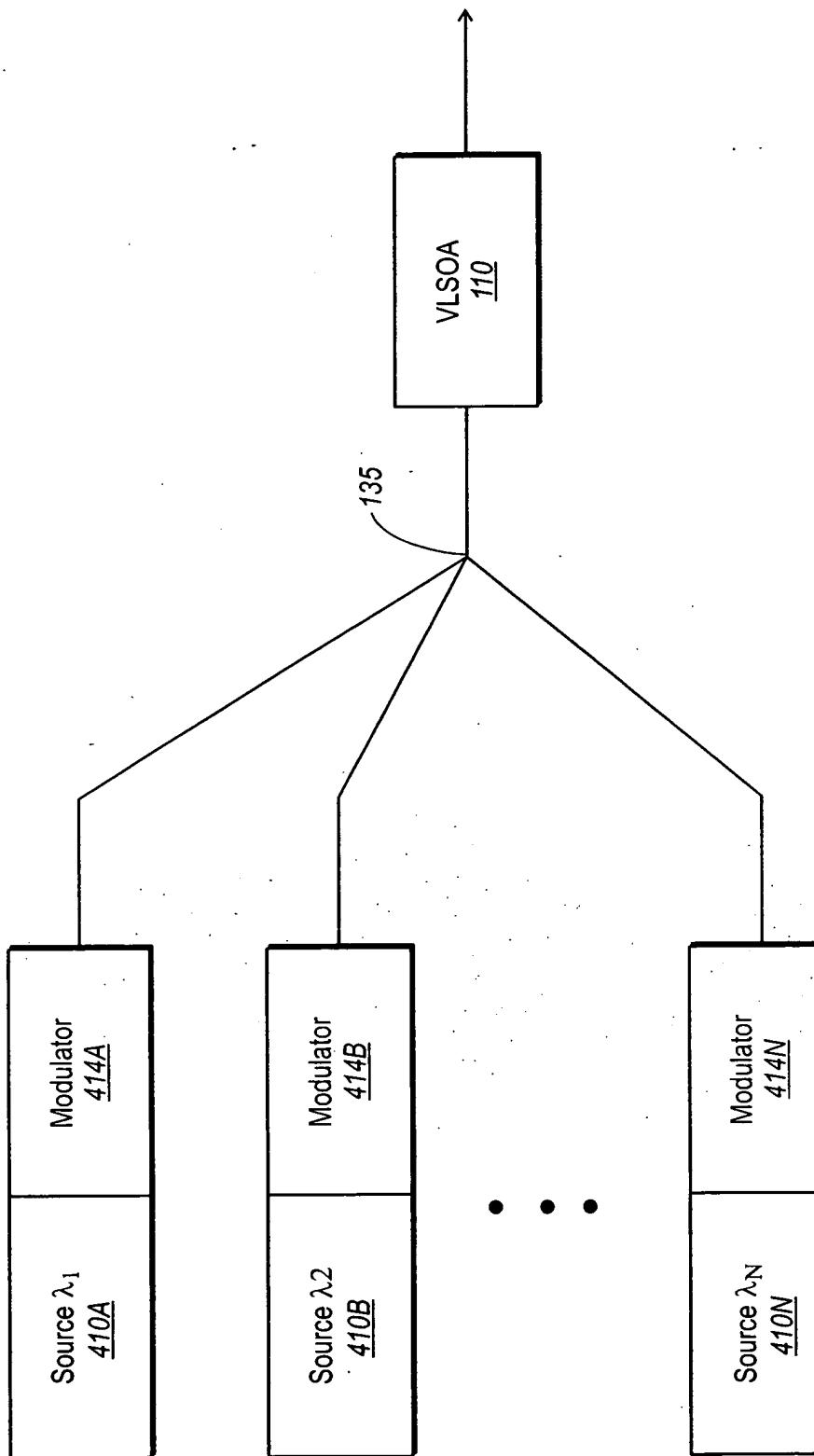


Fig. 4D

Title: Integrated Optical Device Including A Vertical Lasing Semiconductor Optical Amplifier

Inventors: Jeffrey D. Walker, et al.

Docket No.:15436.247.45.1

13 / 28

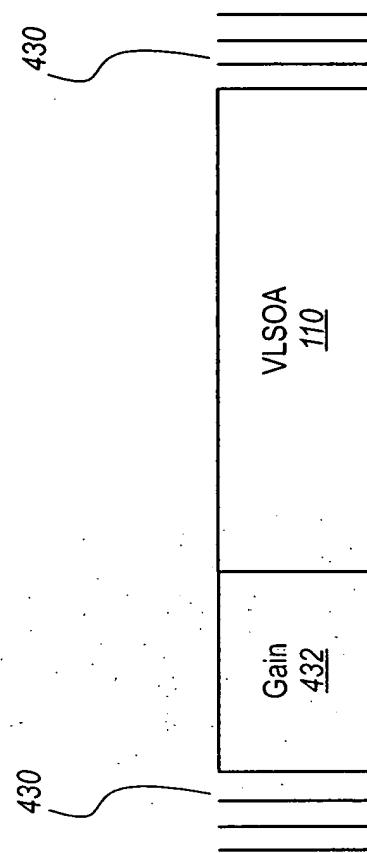


Fig. 4E

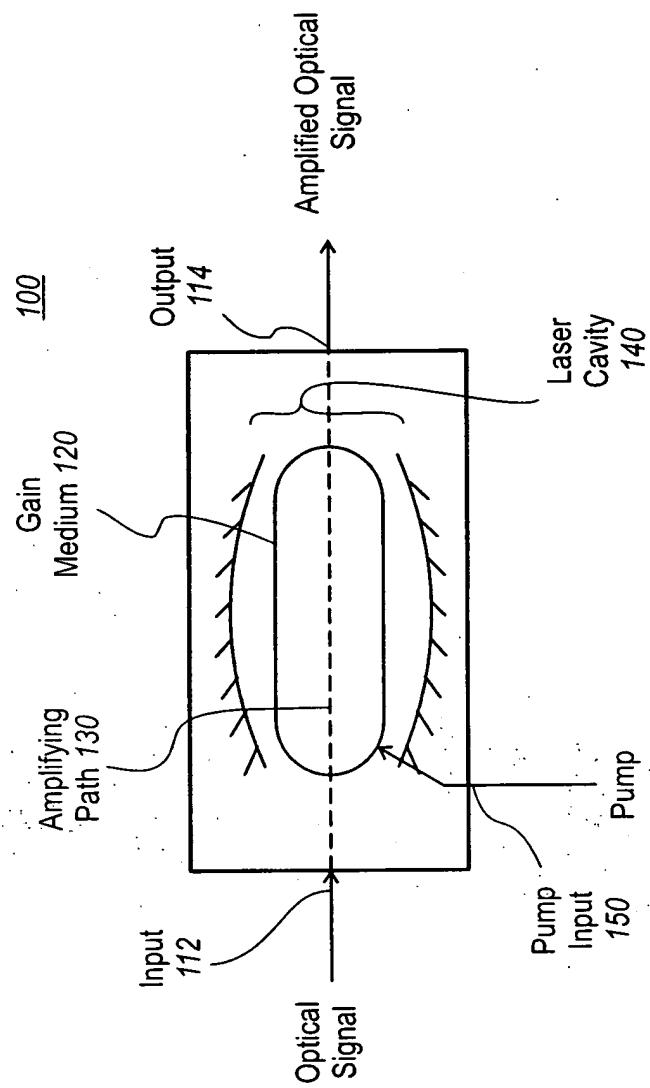


Fig. 5

Title: Integrated Optical Device Including A Vertical Lasing Semiconductor Optical Amplifier

Inventors: Jeffrey D. Walker, et al.

Docket No.:15436.247.45.1

15 / 28

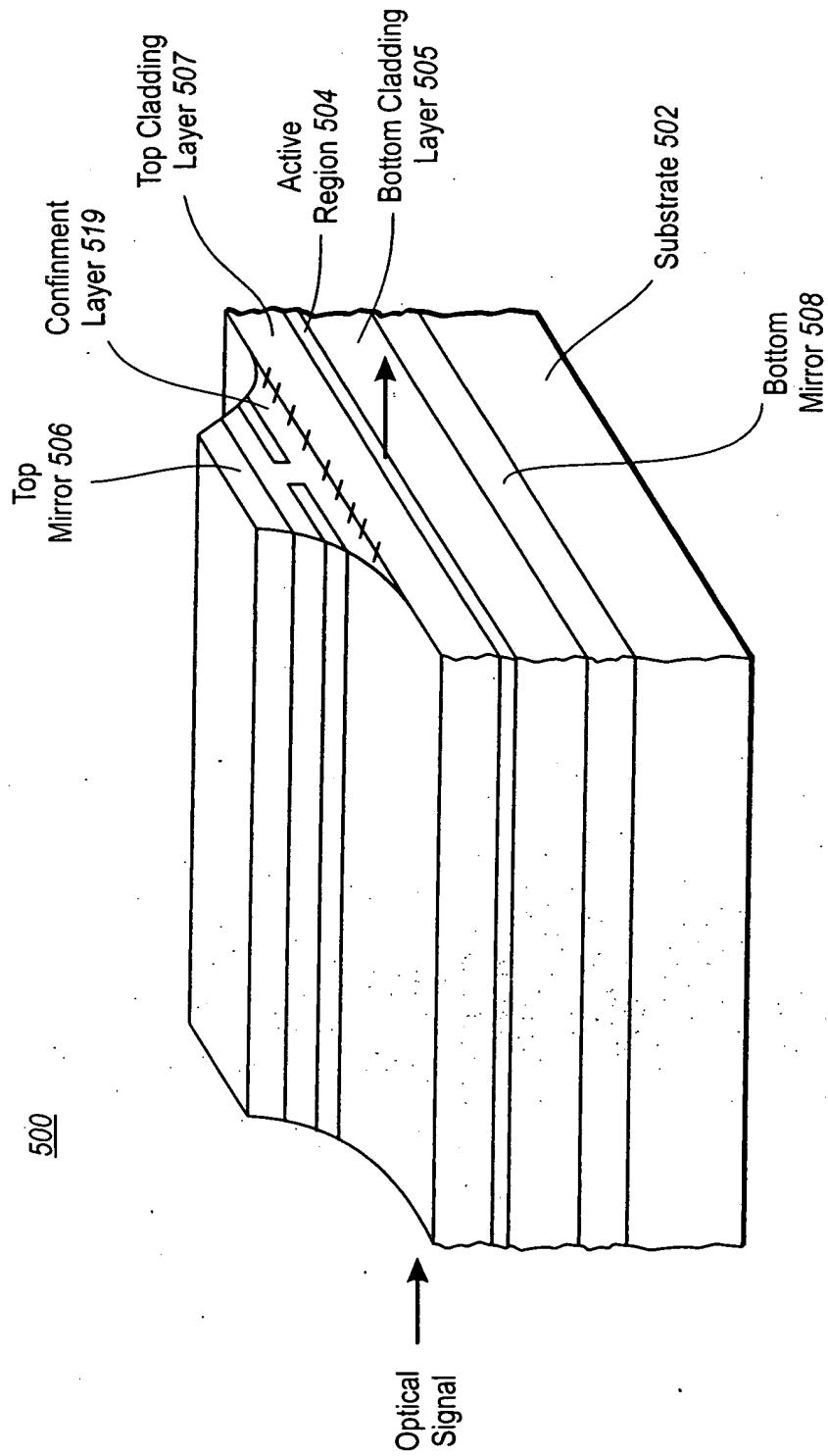


Fig. 6A

Title: Integrated Optical Device Including A Vertical Lasing Semiconductor Optical Amplifier

Inventors: Jeffrey D. Walker, et al.

Docket No.:15436.247.45.1

16 / 28

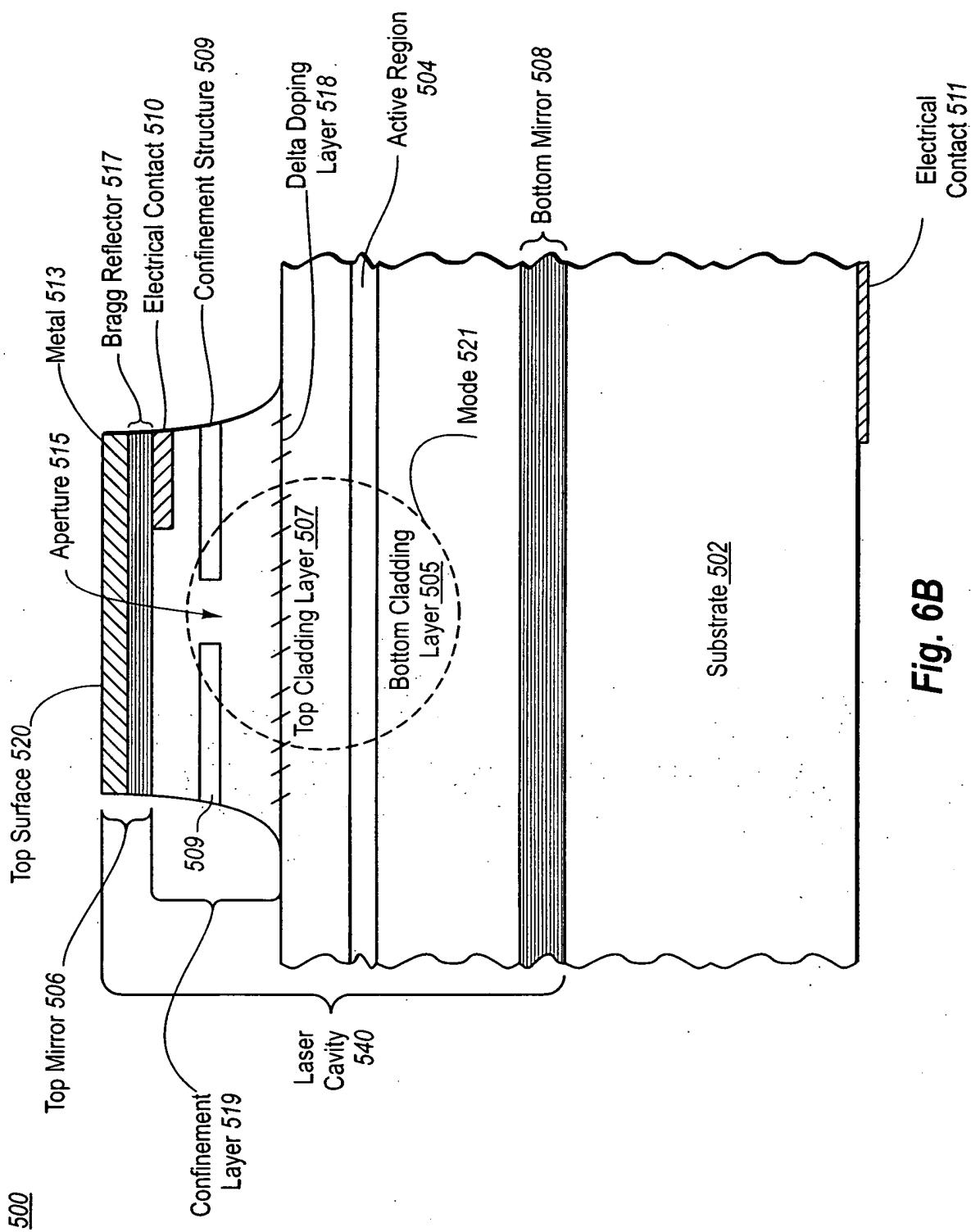


Fig. 6B

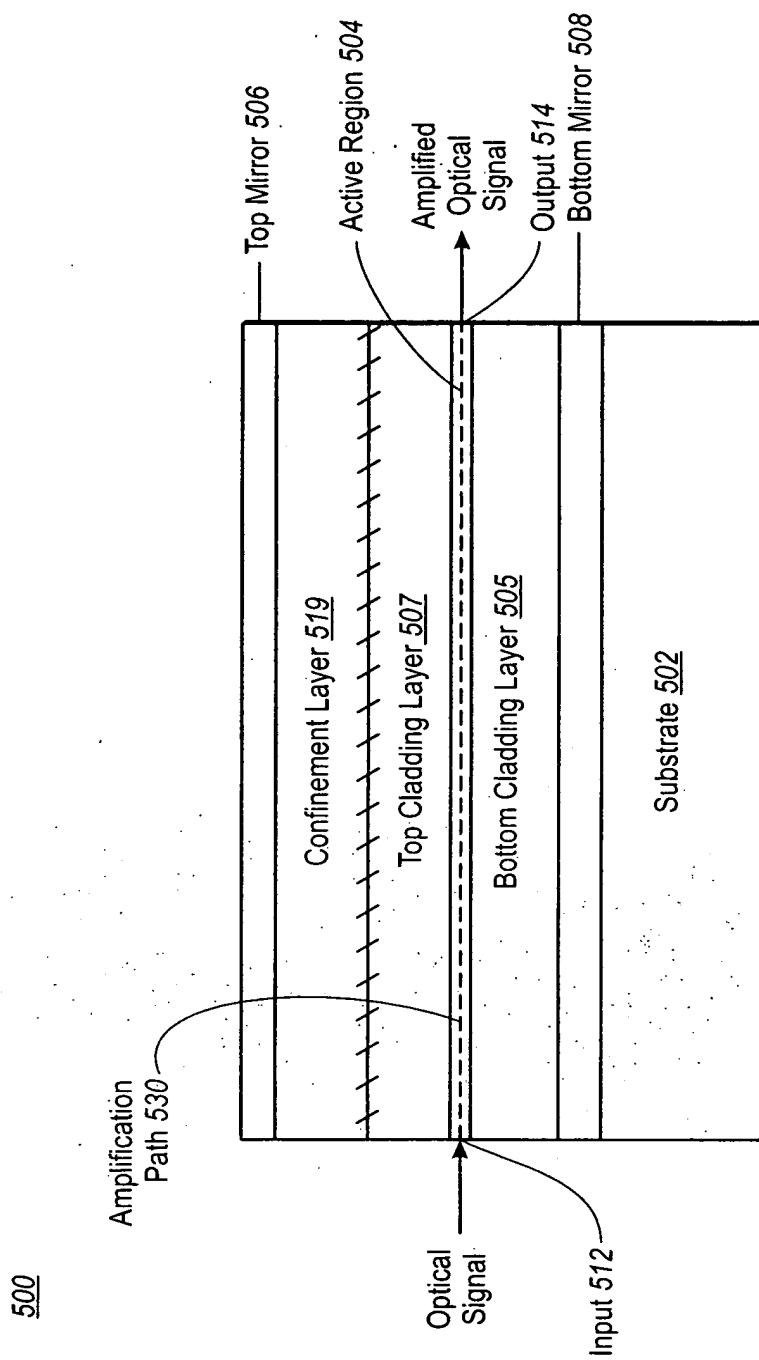


Fig. 6C

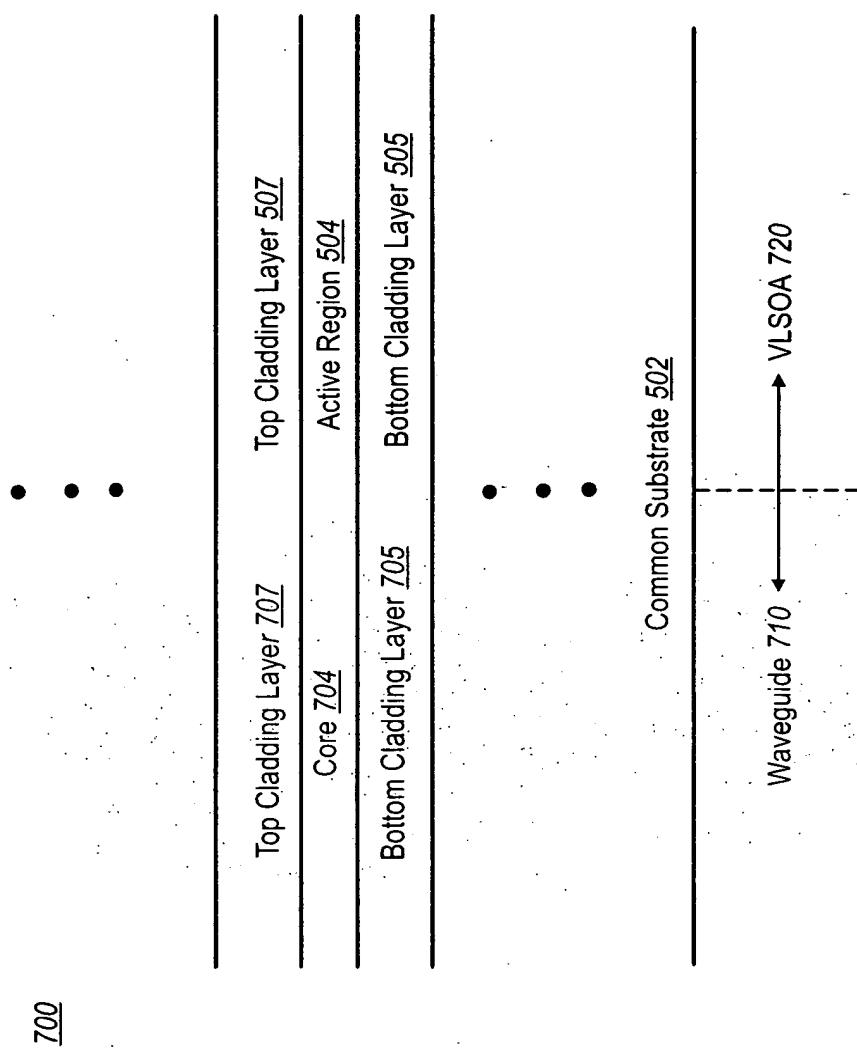


Fig. 7

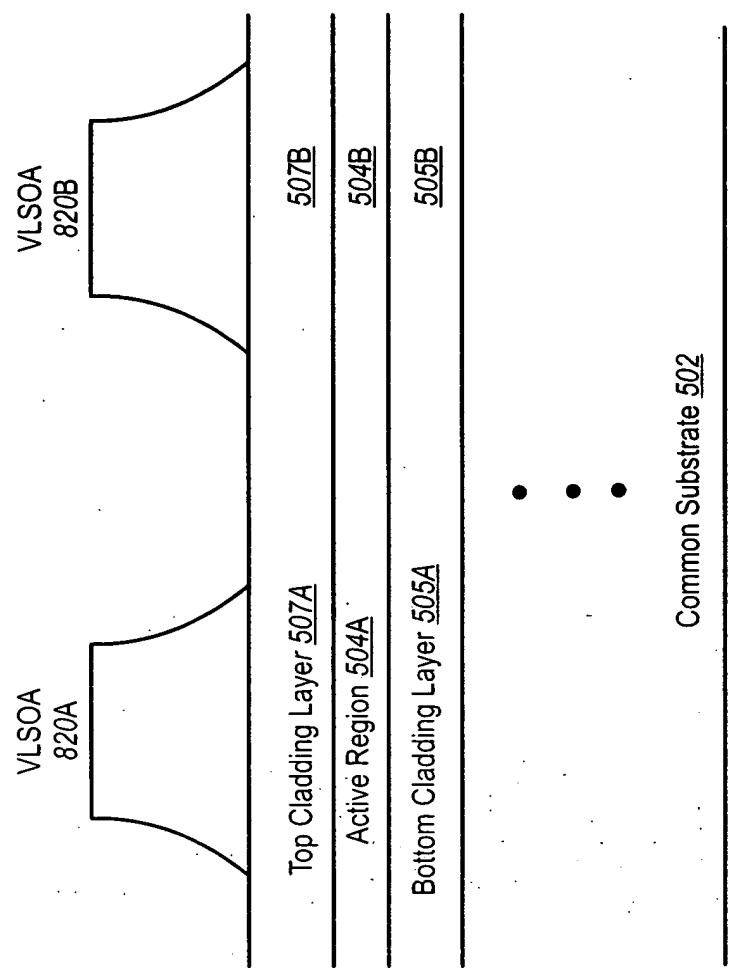


Fig.8

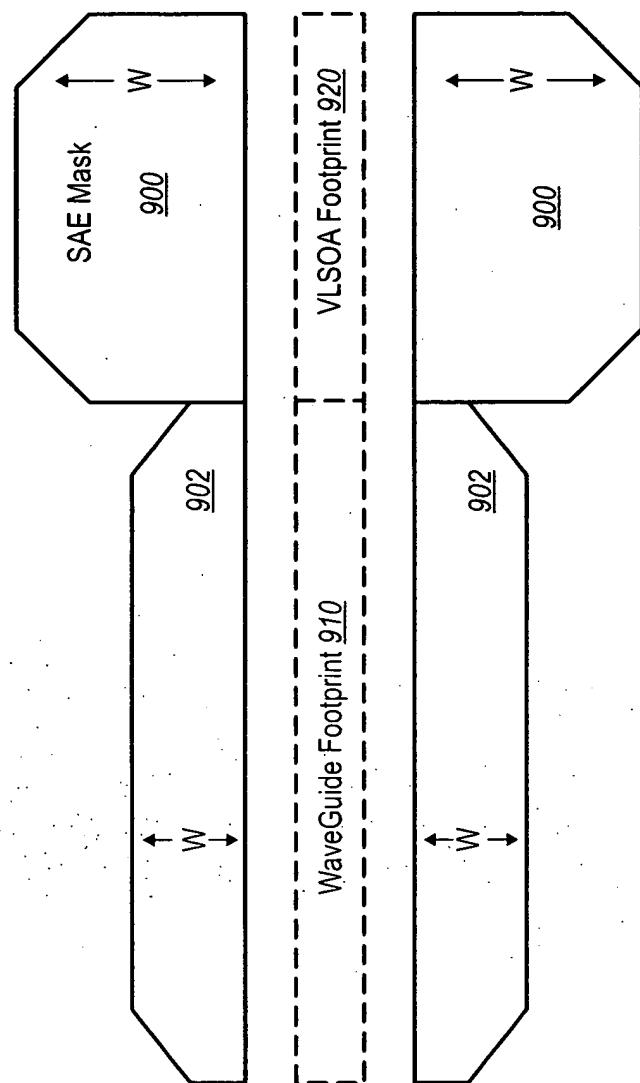


Fig. 9A

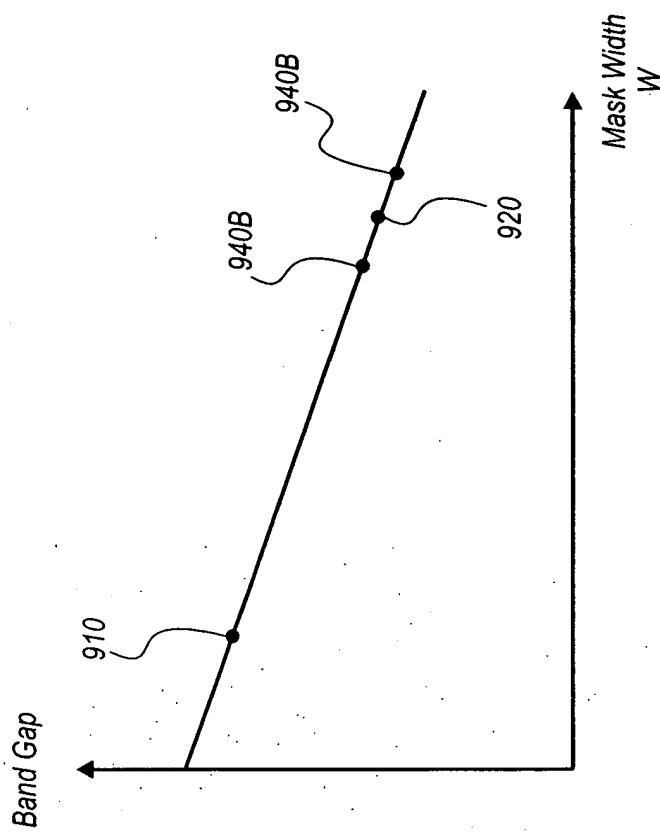


Fig. 9B

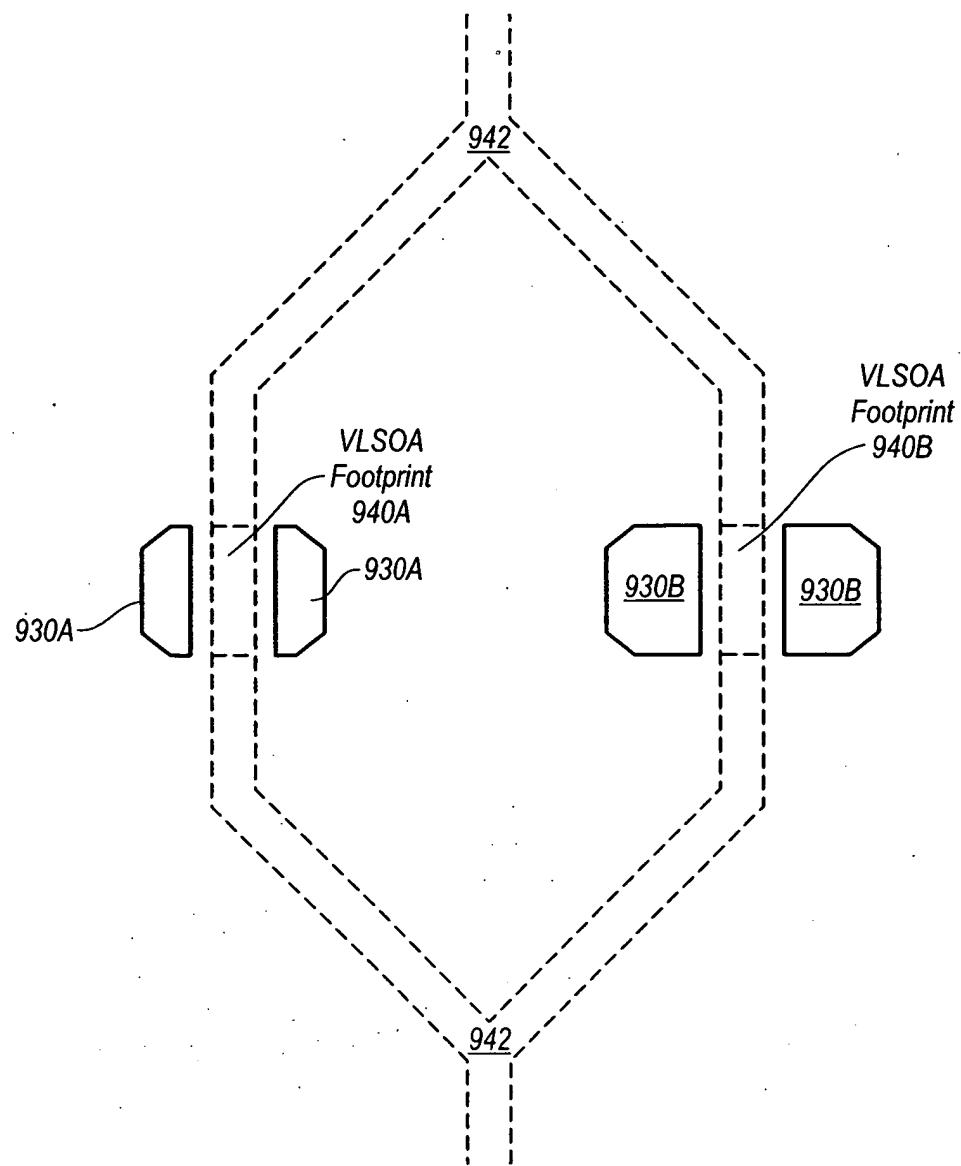


Fig. 9C

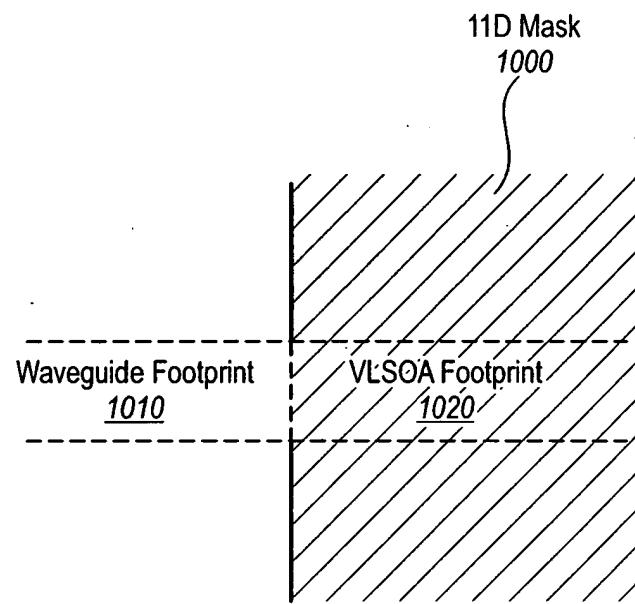


Fig. 10

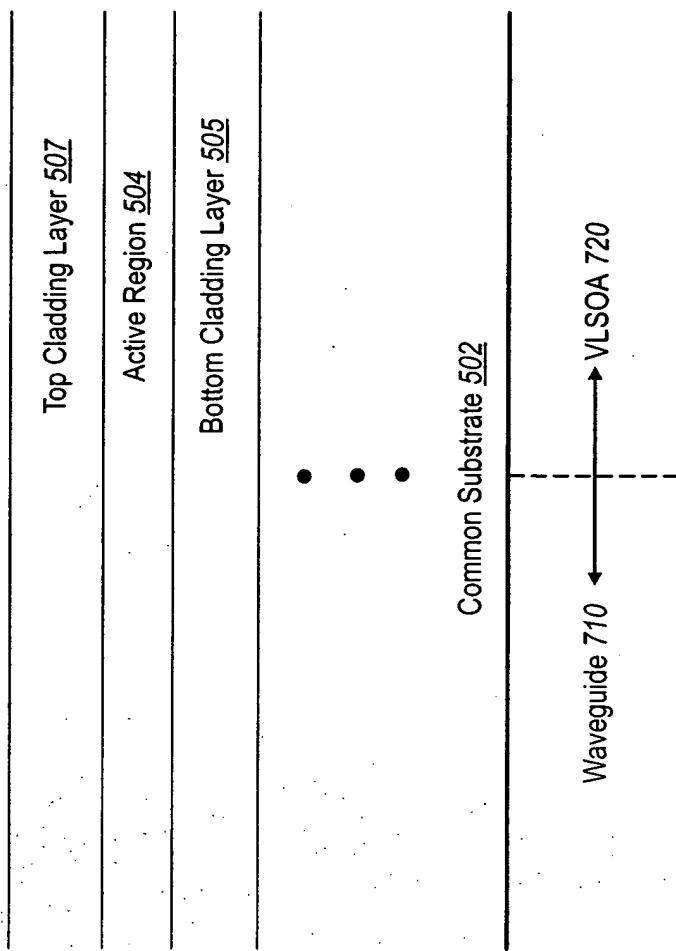


Fig. 11A

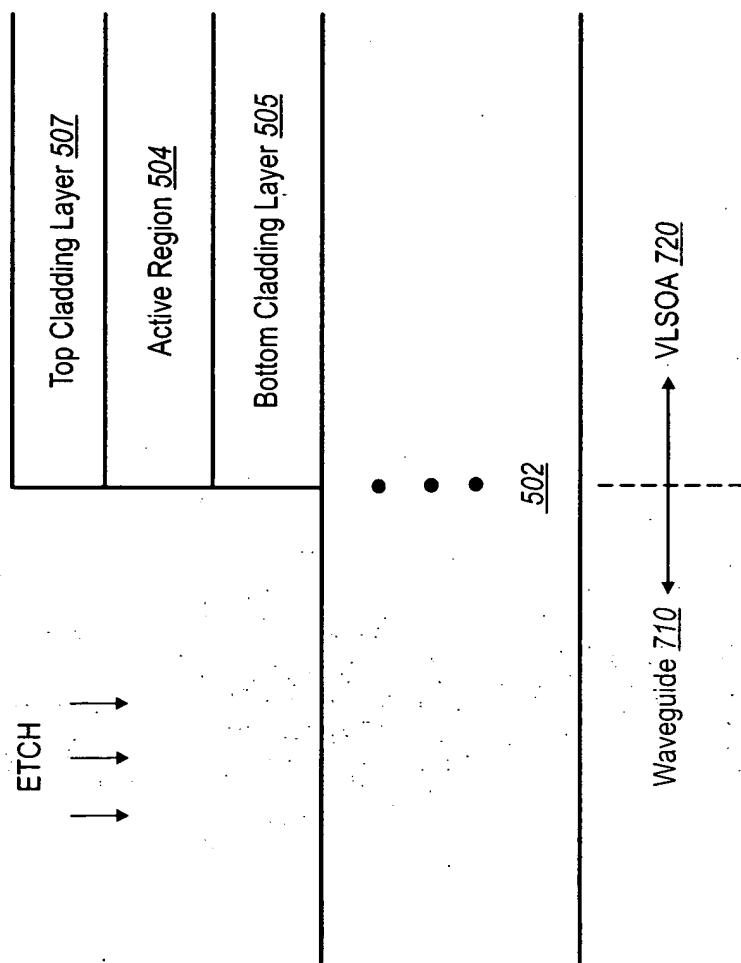


Fig. 11B

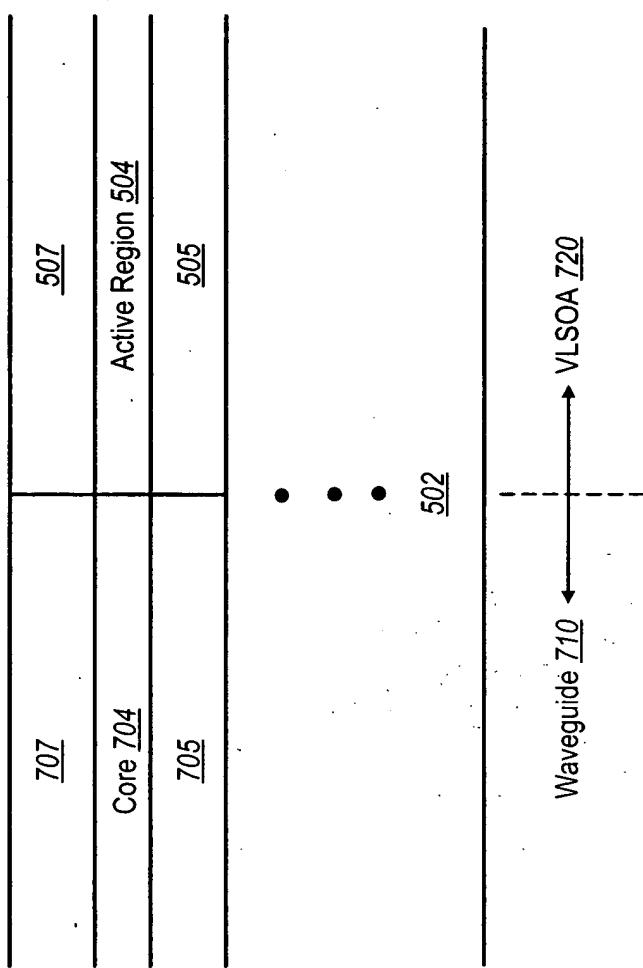


Fig. 11C

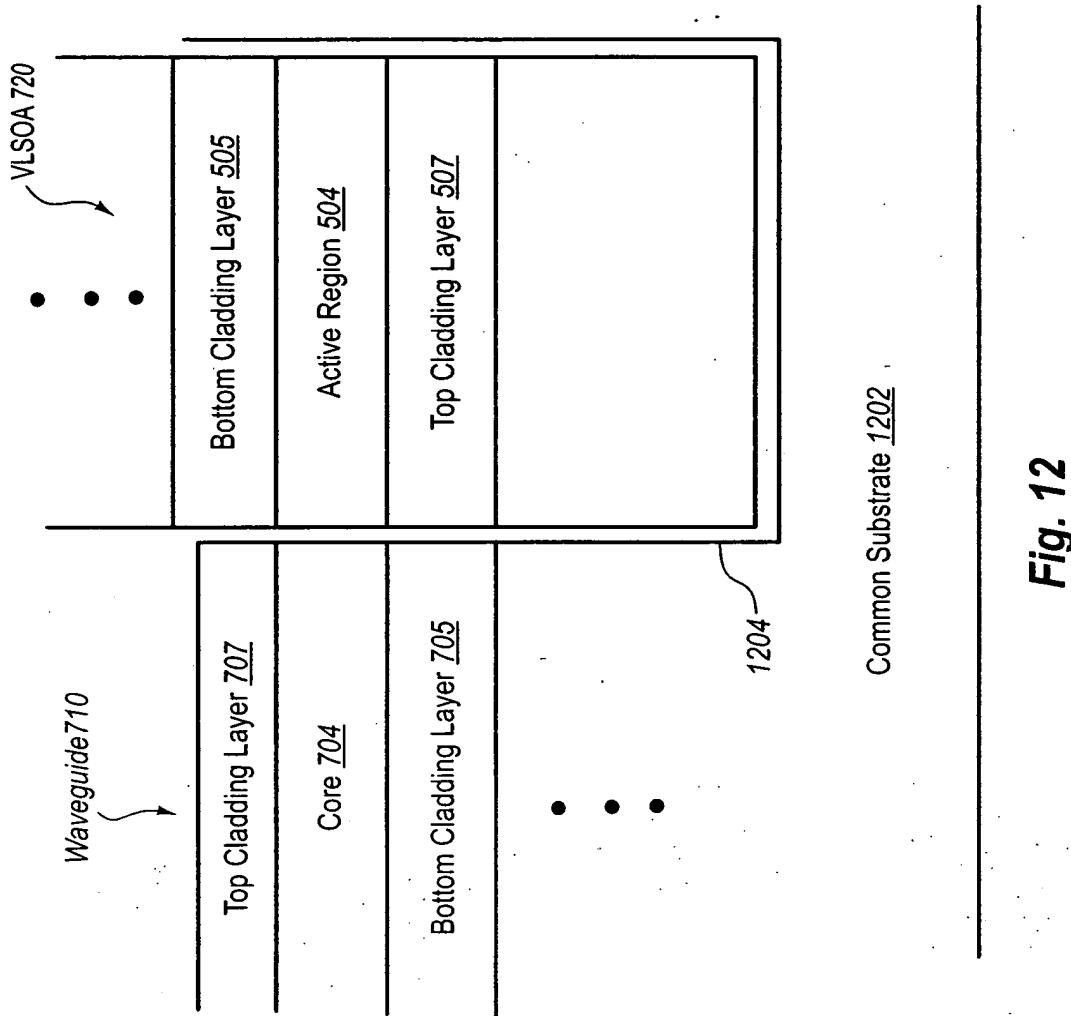


Fig. 12

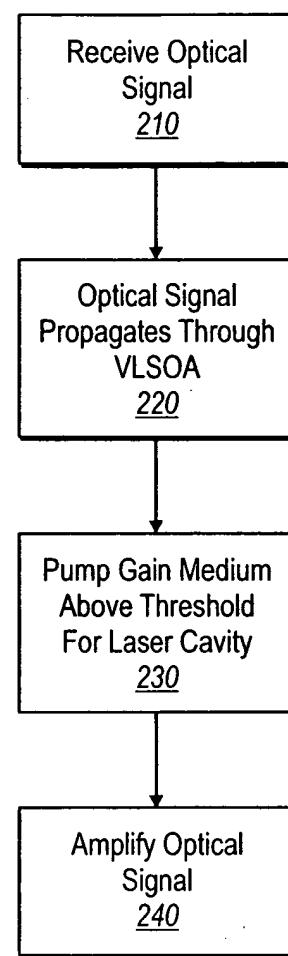


Fig. 13